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\*Admitted only in Maryland  
\*Admitted only in Virginia  
\*Practice Limited to  
Federal Agencies

March 14, 2006

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**Art Unit 2688**

**Attn: Mail Stop Amendment**

Re: U.S. Utility Patent Application  
Application No. 09/550,644; Filed: April 14, 2000  
For: **Method and System for Down-Converting an Electromagnetic Signal,  
Transforms for Same, and Aperture Relationships**  
Inventors: Sorrells *et al.*  
Our Ref: 1744.0010009

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Amendment and Reply Under 37 C.F.R. § 1.111;
2. Submission of Replacement Drawings;
3. Copies of Replacement Drawings (284 pages);
4. Tenth Supplemental Information Disclosure Statement;
5. Form PTO-1449 (2 pages) citing 19 documents (AG71-AI71, AA72-AB72, AJ24-AL25 and AN60-AO61);
6. Copies of documents AJ24-AM24, AJ25-AL25, AN60-AR60, AN61 and AO61;
7. Credit Card Payment Form (PTO-2038) in the amount of \$180.00 to cover Information Disclosure Statement fee; and
8. Return postcard.

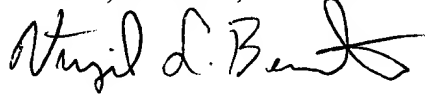
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March 14, 2006  
Page 2

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Virgil L. Beaton  
Attorney for Applicants  
Registration No. 47,415

VLB/krc  
Enclosures

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Sorrells *et al.*

Appl. No.: 09/550,644

Filed: April 14, 2000

For: **Method and System for Down-  
Converting an Electromagnetic  
Signal, Transforms for Same, and  
Aperture Relationships**

Confirmation No.: 9317

Art Unit: 2688

Examiner: Bhattacharya, Sam

Atty. Docket: 1744.0010009

**Submission of Replacement Drawings**

***Mail Stop Amendment***

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

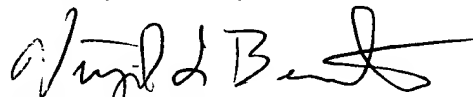
Submitted herewith are two hundred eighty-four sheets of Replacement drawings with Figures 1-4, 5A-5C, 6A-6C, 7A-7C, 8A-8C, 9A-9C, 10A-10C, 11, 12A-12D, 13, 14A-14D, 15A-15D, 16, 17, 18A-18E, 19A-19E, 20A-20E, 21A-21E, 22A-22E, 23A-23E, 24A-24C, 25A-25H, 26A-26B, 27, 28A-28D, 29A-29L, 30, 31A-31C, 32A-32C, 33A-33D, 34A-34F, 34A-35E, 36A-36E, 37A-37E, 38A-38E, 39A-39D, 40A-40E, 41A-41E, 42, 43, 44A-44E, 45A-45B, 46A-46D, 47A-47E, 48, 49A-49H, 50A-50G, 51A-51G, 52A-52G, 53A-53G, 54A-54G, 55A-55G, 56A-56D, 57A-57F, 58A-58F, 59A-59F, 60A-60F, 61A-61F, 62A-62F, 63, 64A-64B, 65, 66A-66D, 67A-67C, 68A-68L, 69, 70, 71A-71C, 72-75, 76A-76E, 77A-77C, 78A-78B, 79-81, 82A-82B, 83A-83F, 84A-84D, 85A-85C, 86-93, 94A-94C, 95-97, 98A-98F, 99-106, 107A-107B, 108A-108B, 109A-109F, 110A-110B, 111A-111C, 112, 113A-113E, 114-123, 124A-124J, 125, 126A-126Q, 127A-127Q, 128A-128C, 129A-129Q, 130-163, 164A-164C, 165-174, 175A-175D, 176, 177A-177F, 178A-178B, 179-217, 218A-218E and 219-285, corresponding to the above-captioned application. Identification of the drawing(s) is provided in accordance with 37 C.F.R. § 1.84(c). Acknowledgment of the receipt, approval, and entry of these drawing(s) into this application is respectfully requested.

It is not believed that an extension of time is required, other than any already provided herewith. However, if an extension of time is needed to prevent abandonment of the application, then such extension of time is hereby petitioned. The U.S. Patent and

Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

A handwritten signature in black ink, appearing to read "Virgil L. Beaton", with a stylized flourish at the end.

Virgil L. Beaton  
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Date: March 14, 2006

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